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FIG. 1A

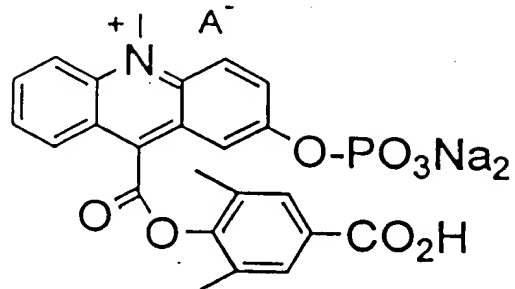


FIG. 1B

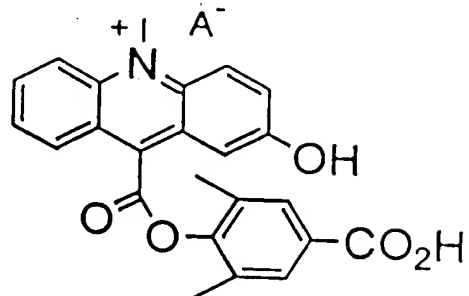


FIG. 1C

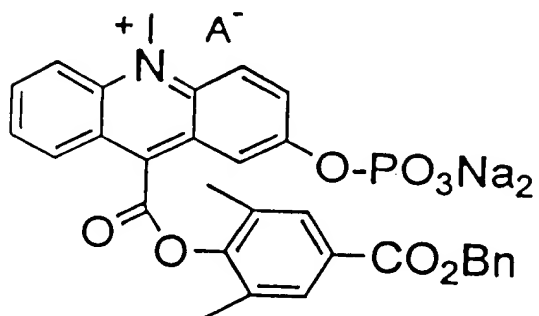


FIG. 1D

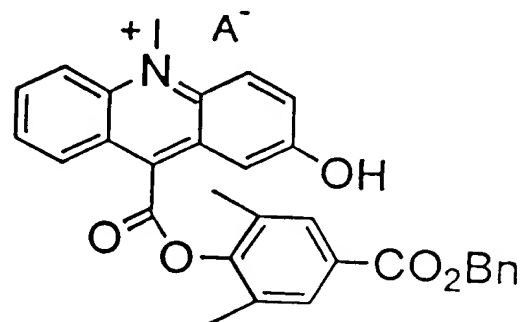


FIG. 1E

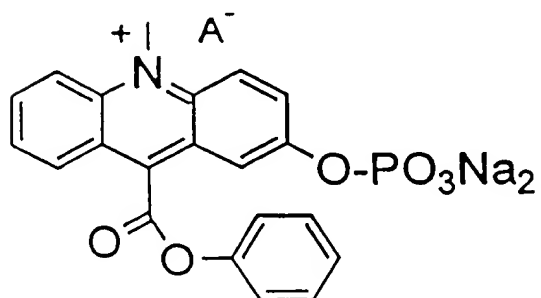
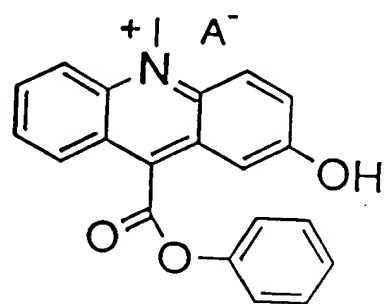


FIG. 1F



[Na+].[Na+].[O-]P(=O)([O-])Oc1ccc2c(c1)c(=O)c3ccccc3n2C(=O)Oc4ccc(cc4)C(=O)OCC[N+](CC)(CC)COP(=O)([O-])[O-]CCCC[S-](=O)(=O)N1=C2C=CC(=C2C(=C1)C(=O)OC3C=CC(=C(C)C)C(=O)O)C3=CC=C(O)C=C2COc1ccc2c(c1)c(c3ccccc23)[N+]([O-])=N4C(=O)OC(=O)c5ccc(C(=O)O)cc5O[Na]4.[Na+]COC1=CC=C2C(=C1)N(=C2)C(=C3C=C(C=C3)O)C(=O)OC4=CC=C(C=C4)C(=O)ONaO=P([O-])([O-])Oc1ccc2c(c1)c3ccccc3n2C(=O)Oc4ccccc4Oc1ccc2c(c1)c3ccccc3c2C(=O)Oc4ccccc4

FIG. 1M

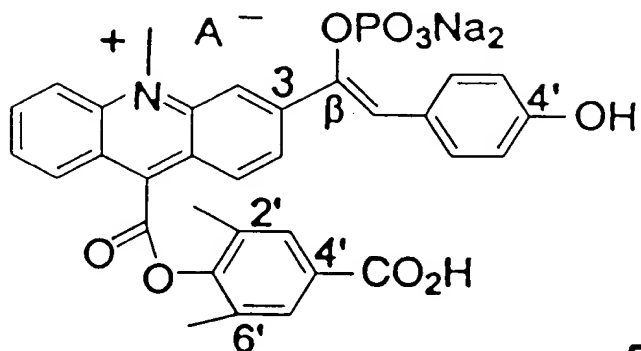


FIG. 1N

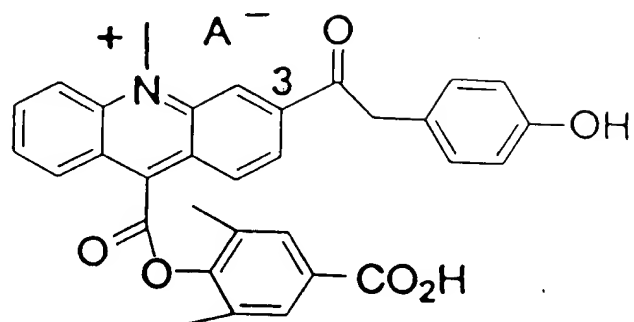


FIG. 1O

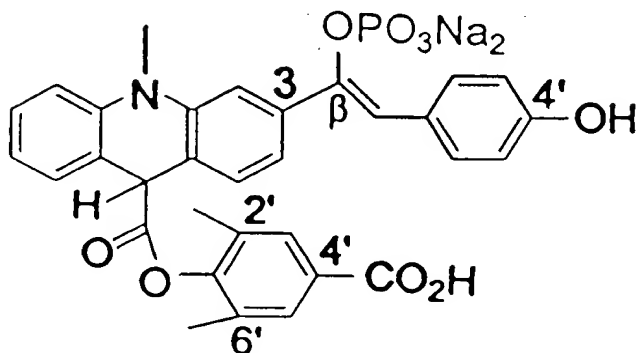
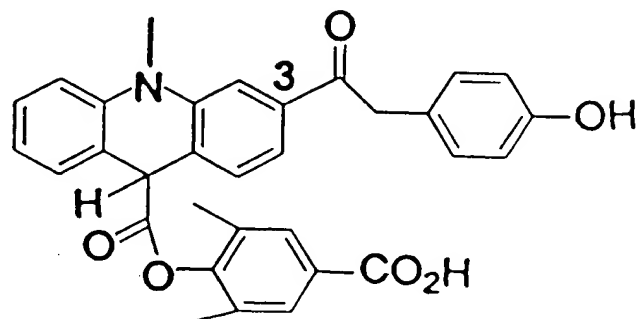


FIG. 1P



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FIG. 1Q

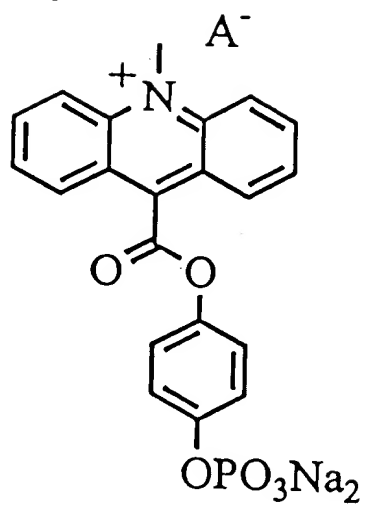
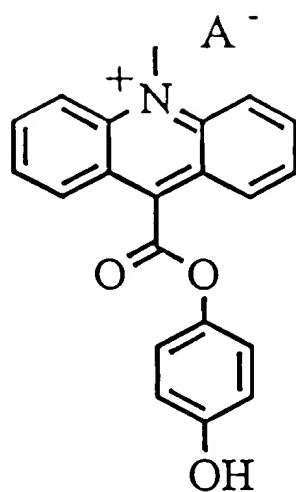


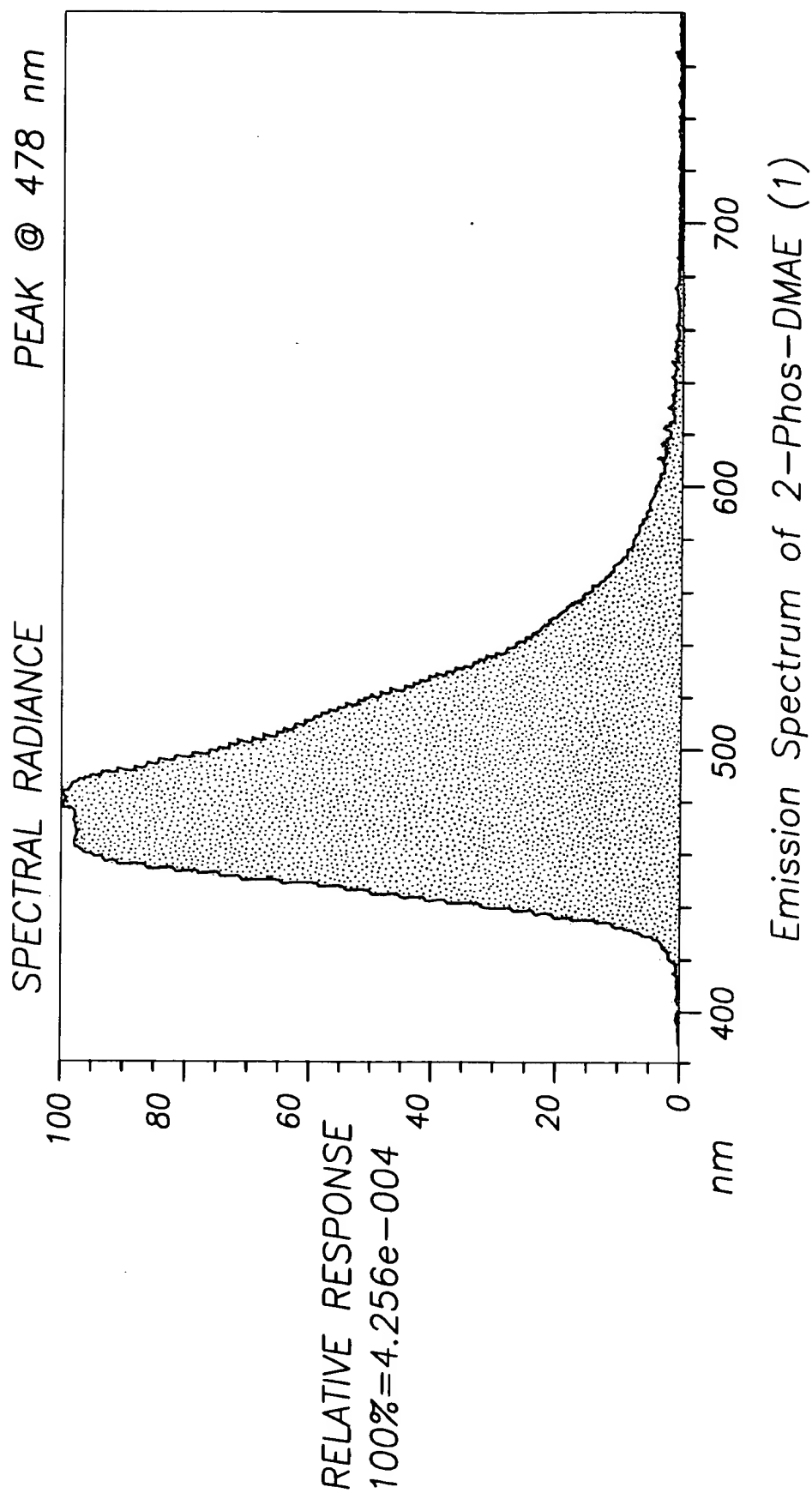
FIG. 1R



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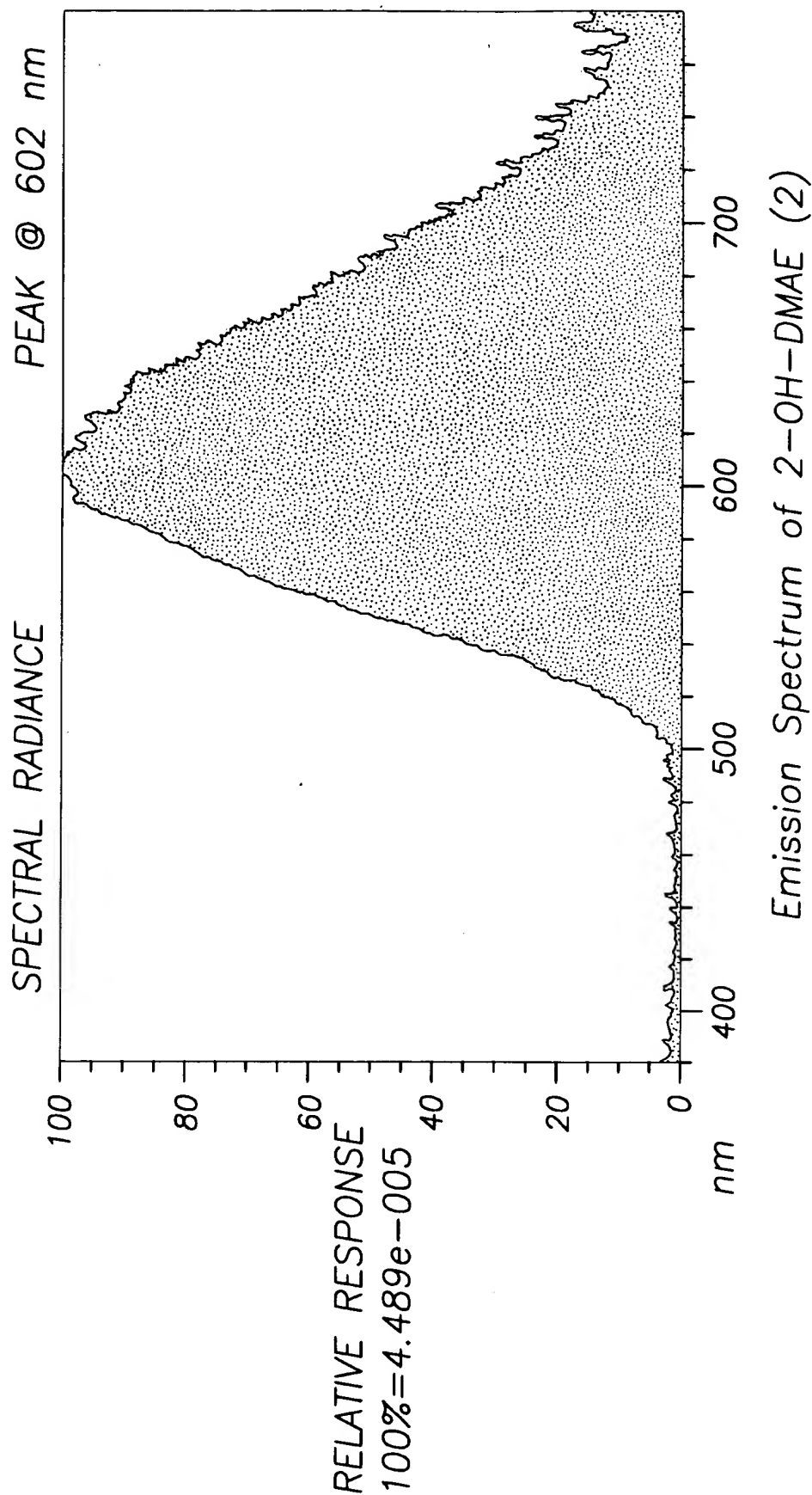
FIG.2A



00220" 99592960

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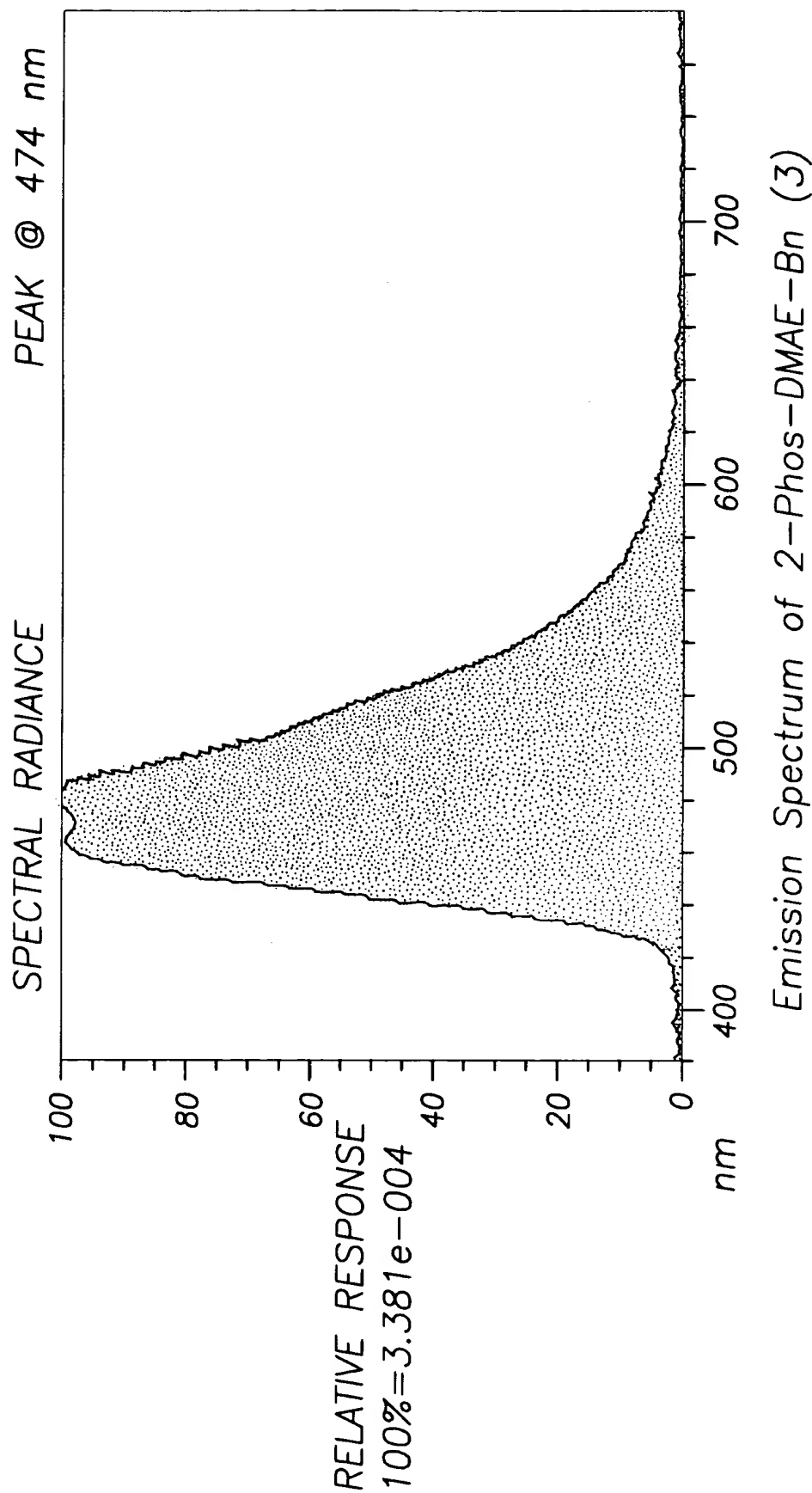
FIG.2B



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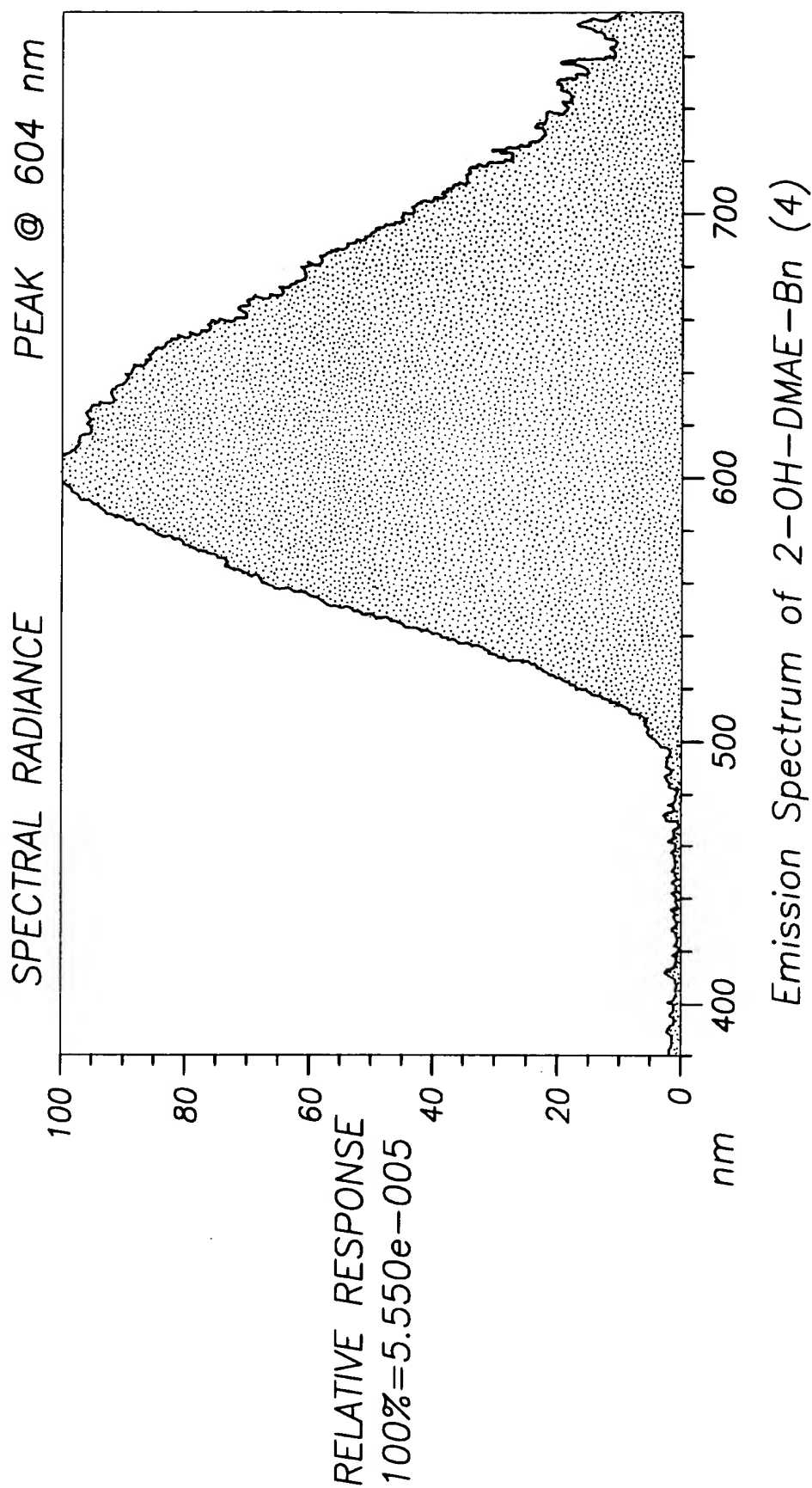
FIG.2C



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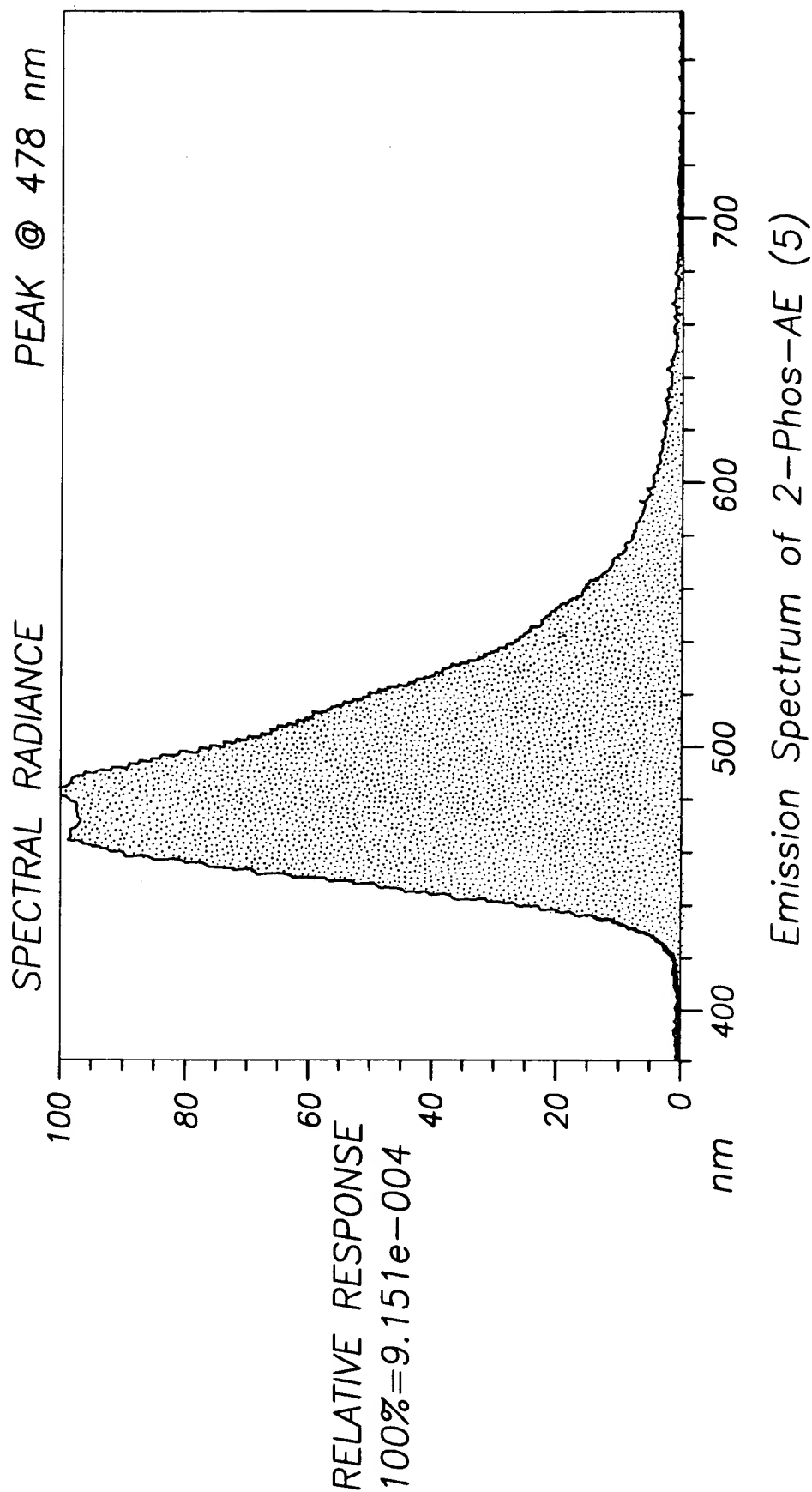
FIG.2D



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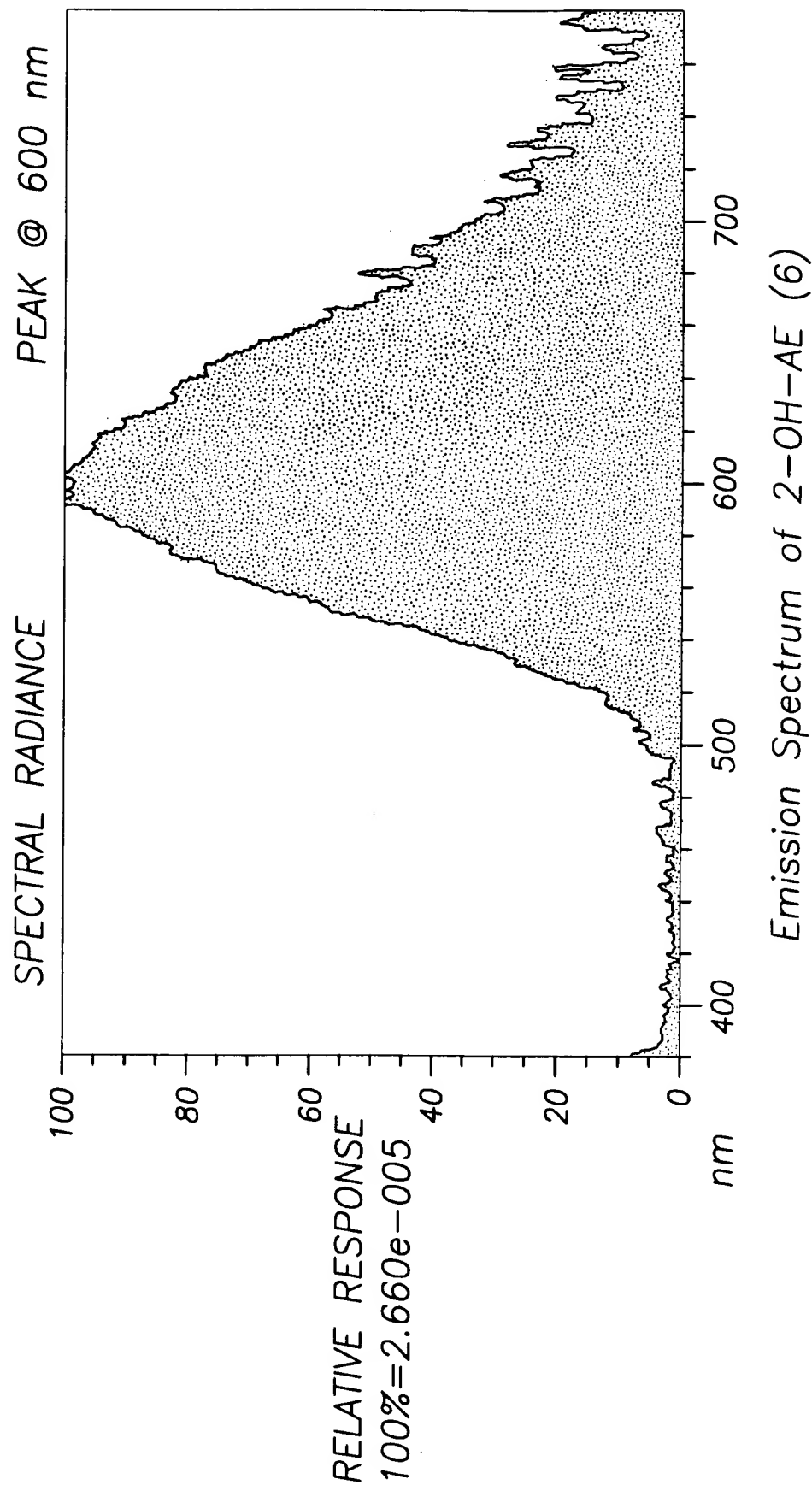
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FIG.2E



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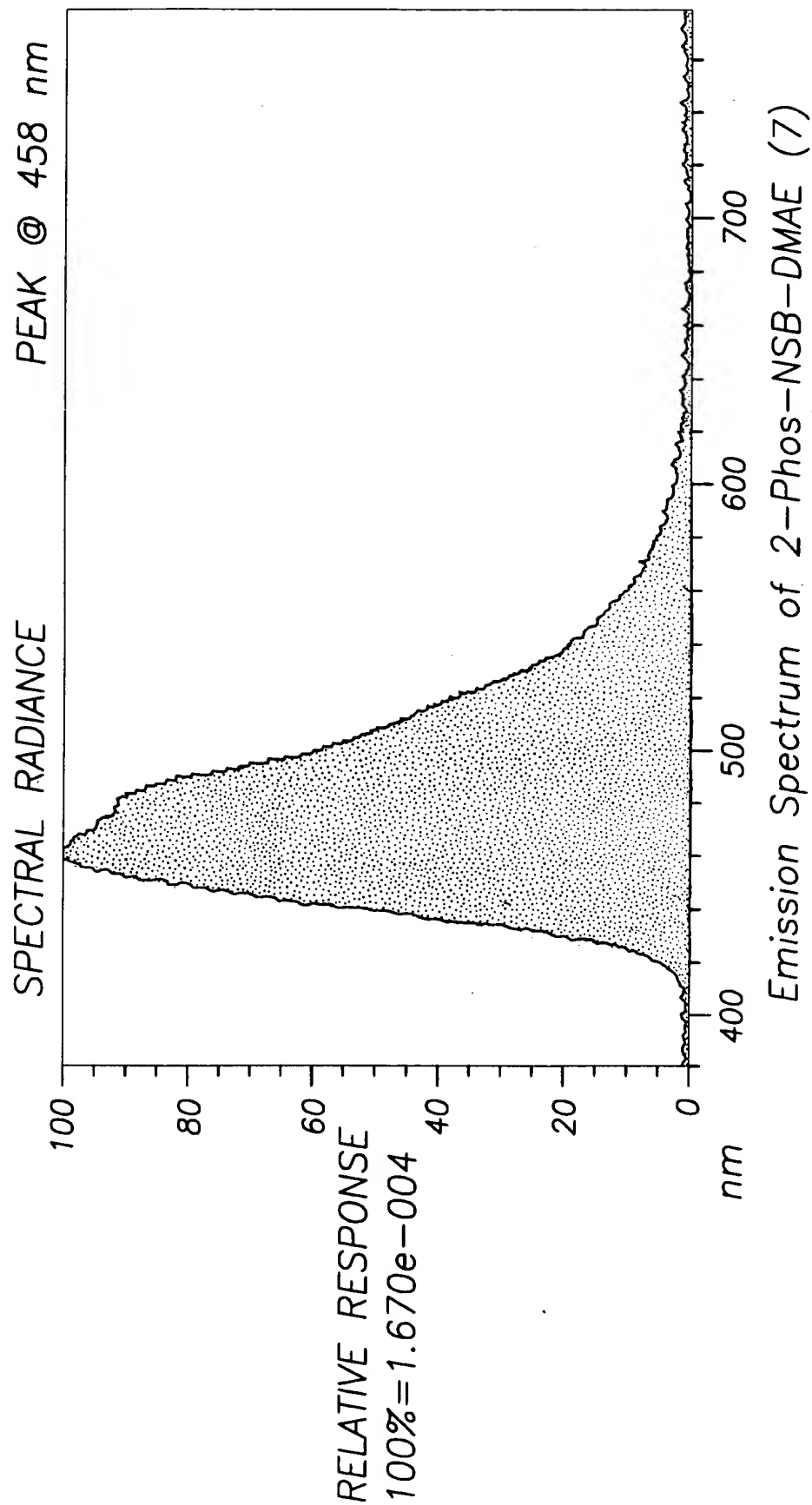
FIG.2F



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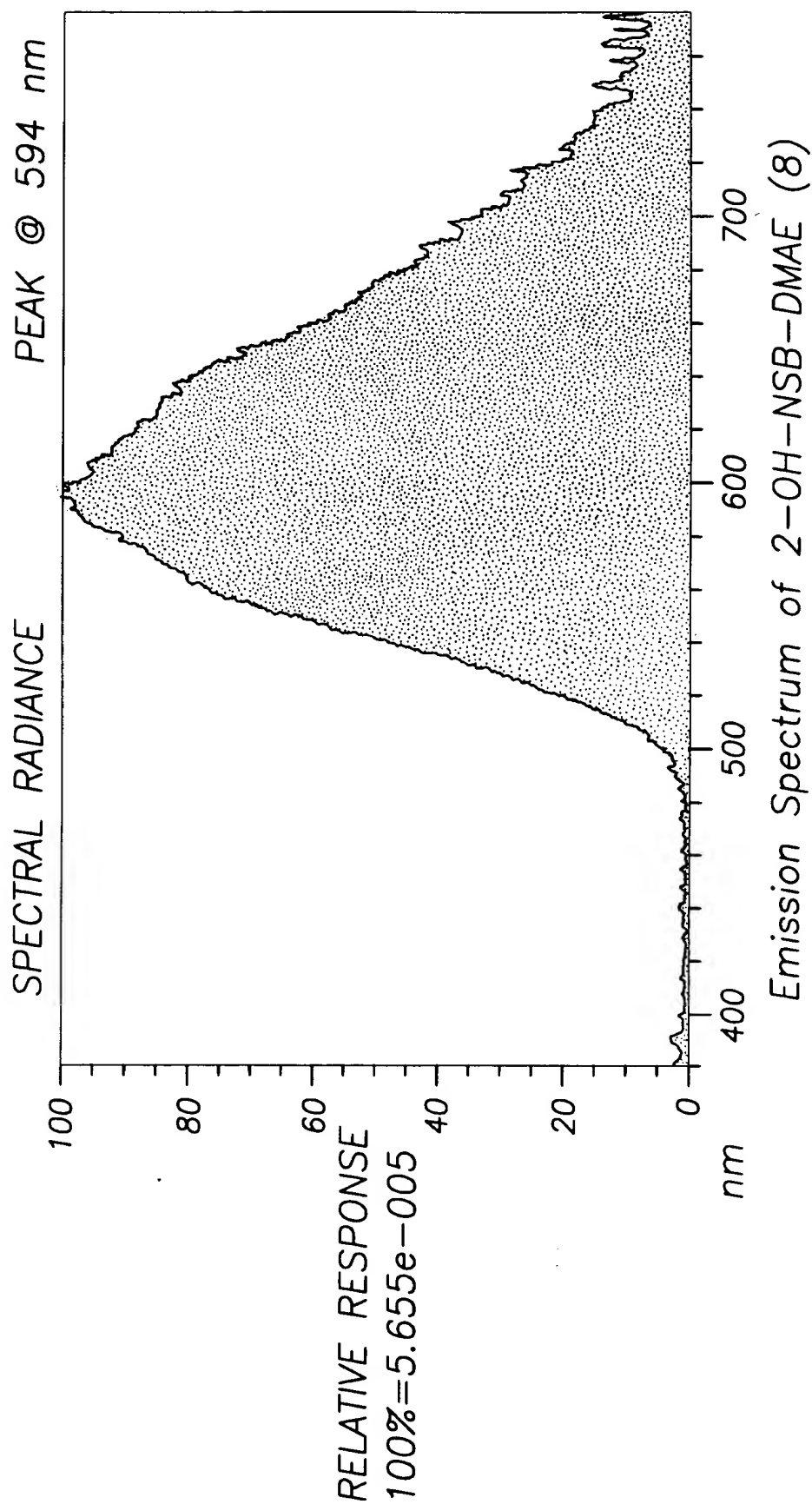
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FIG.2G



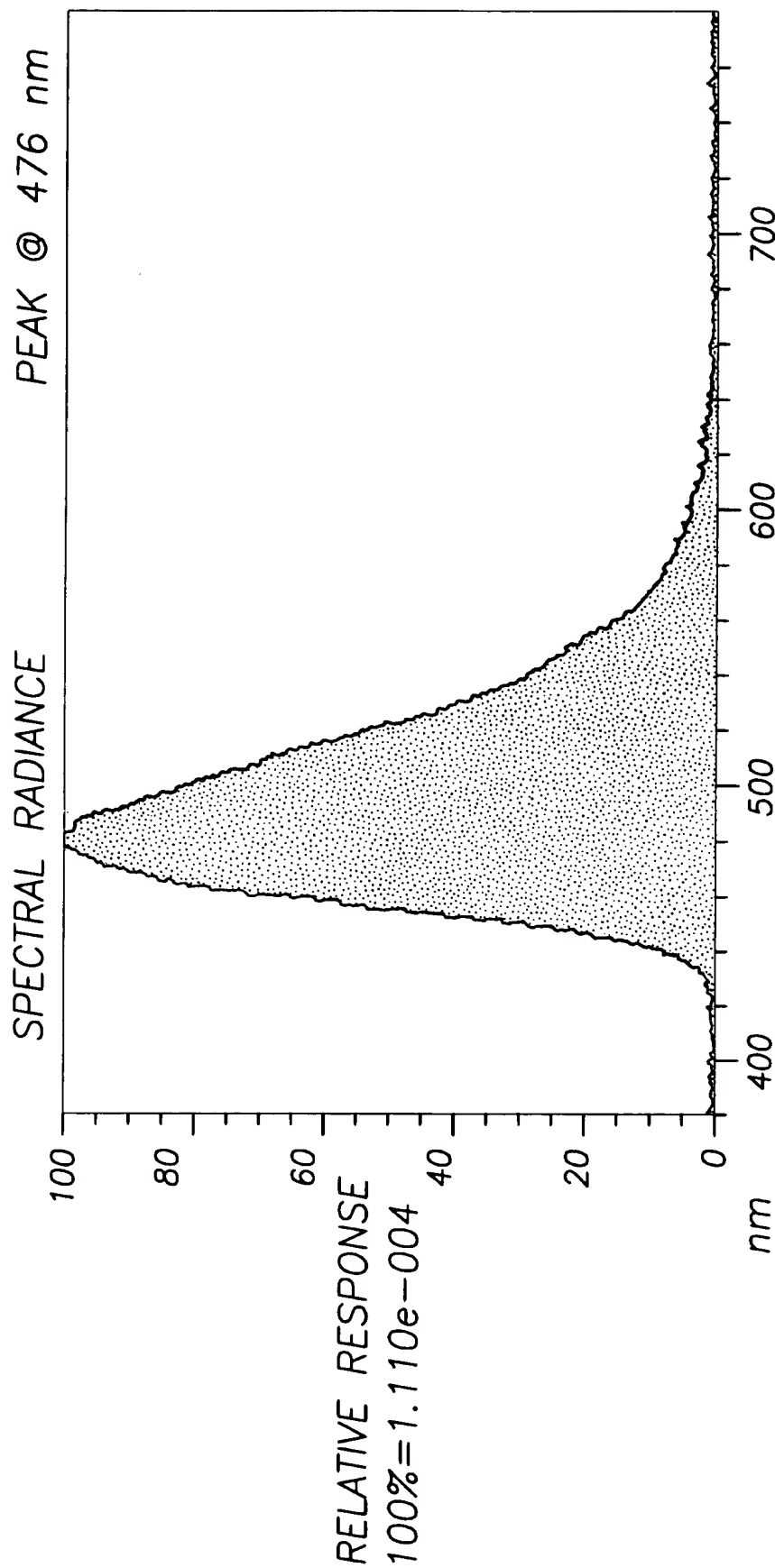
00220" 99592960

FIG.2H



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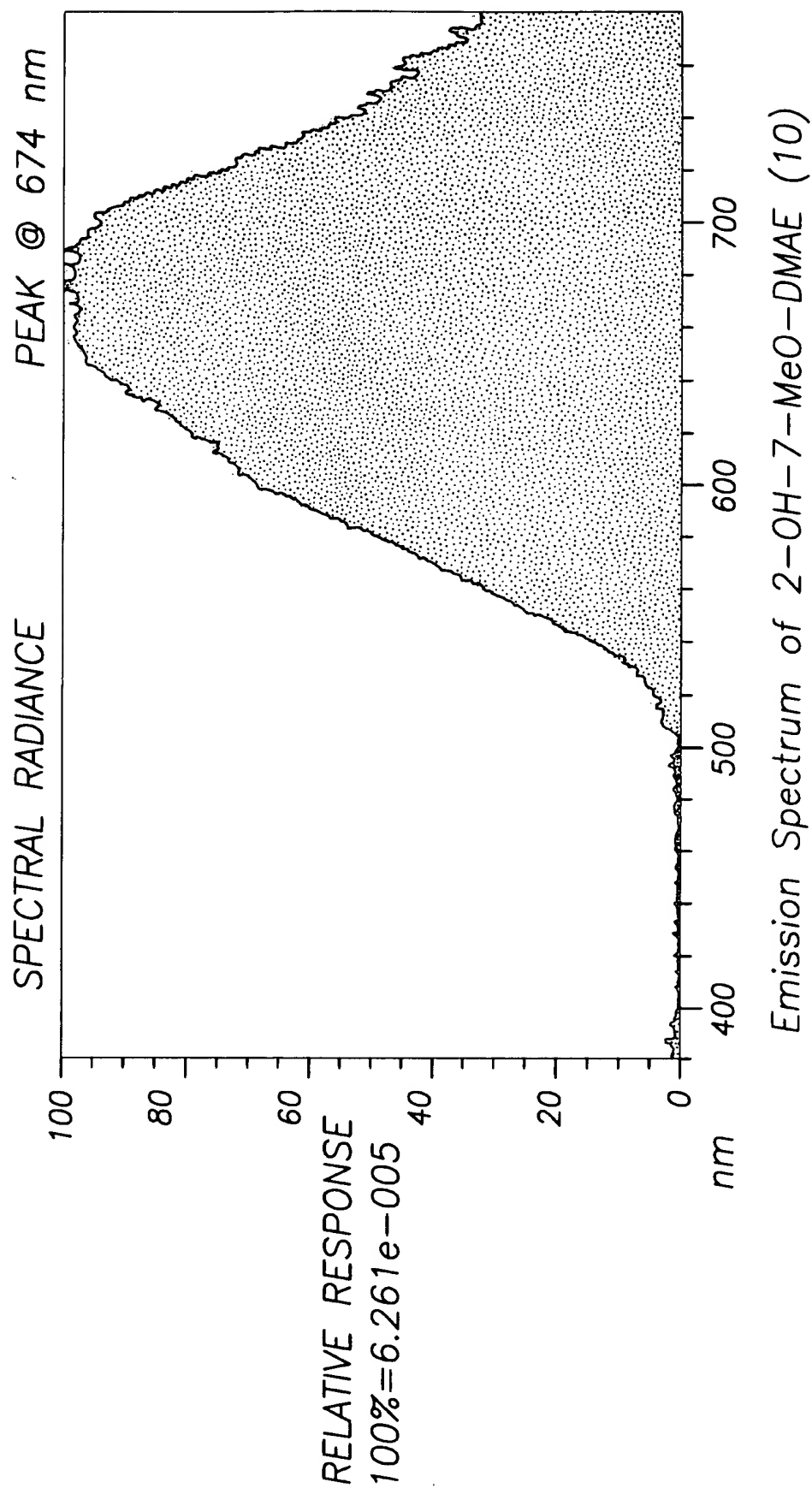
FIG.2I



Emission Spectrum of 2-Phos-7-MeO-DMAE (9)

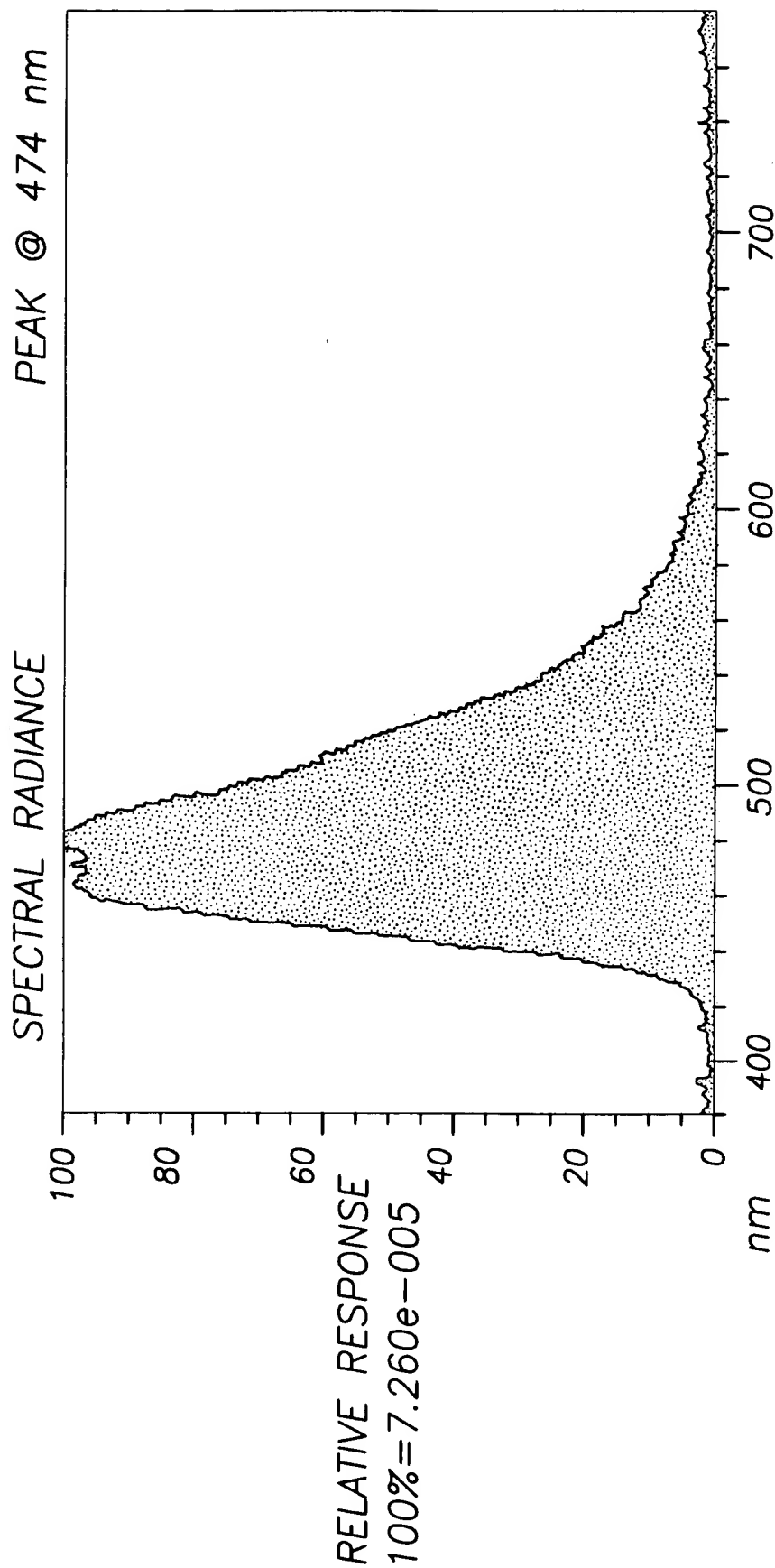
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FIG.2J



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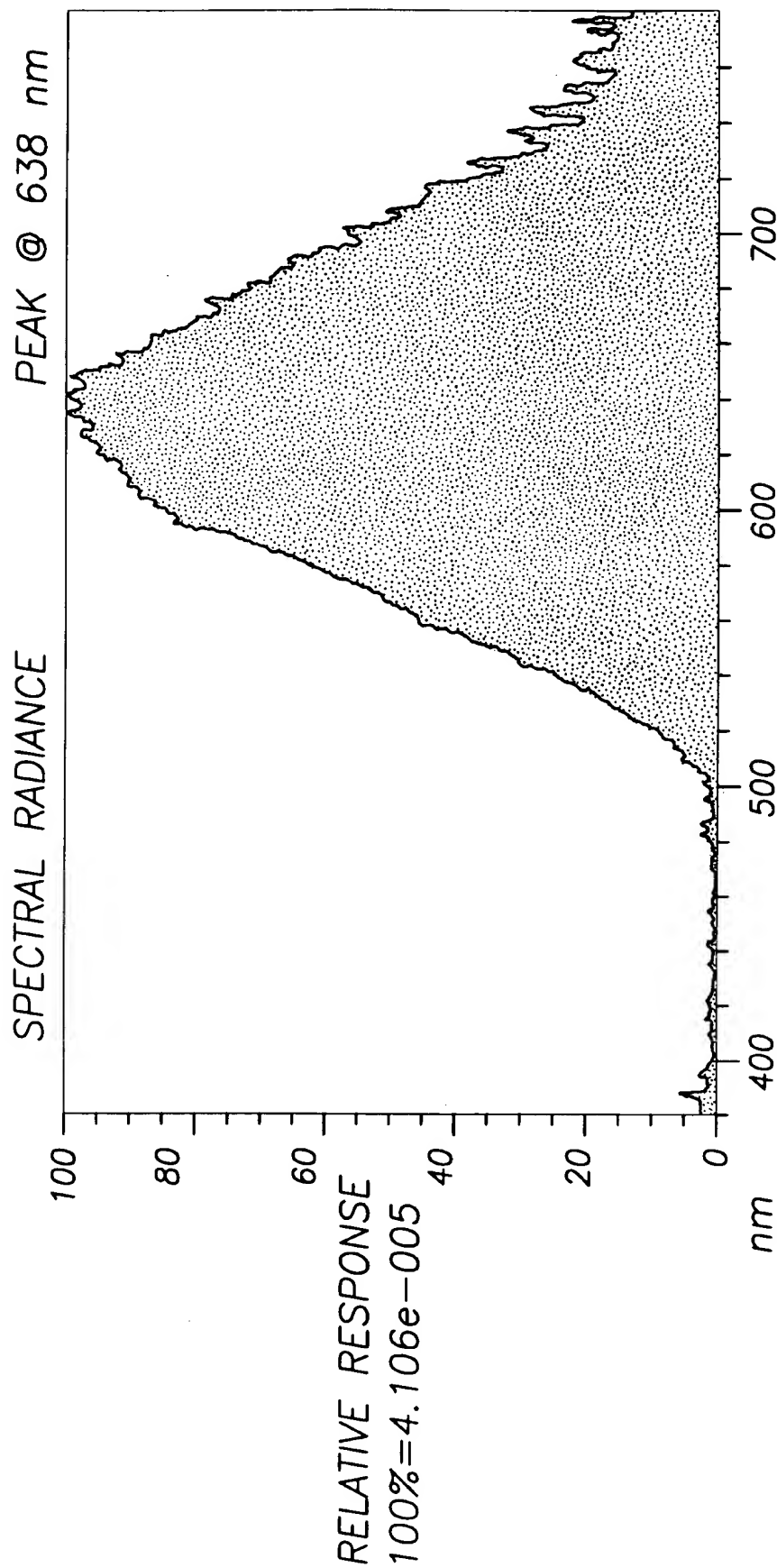
FIG.2K



Emission Spectrum of 2-Phos-Spiroacridan (11)

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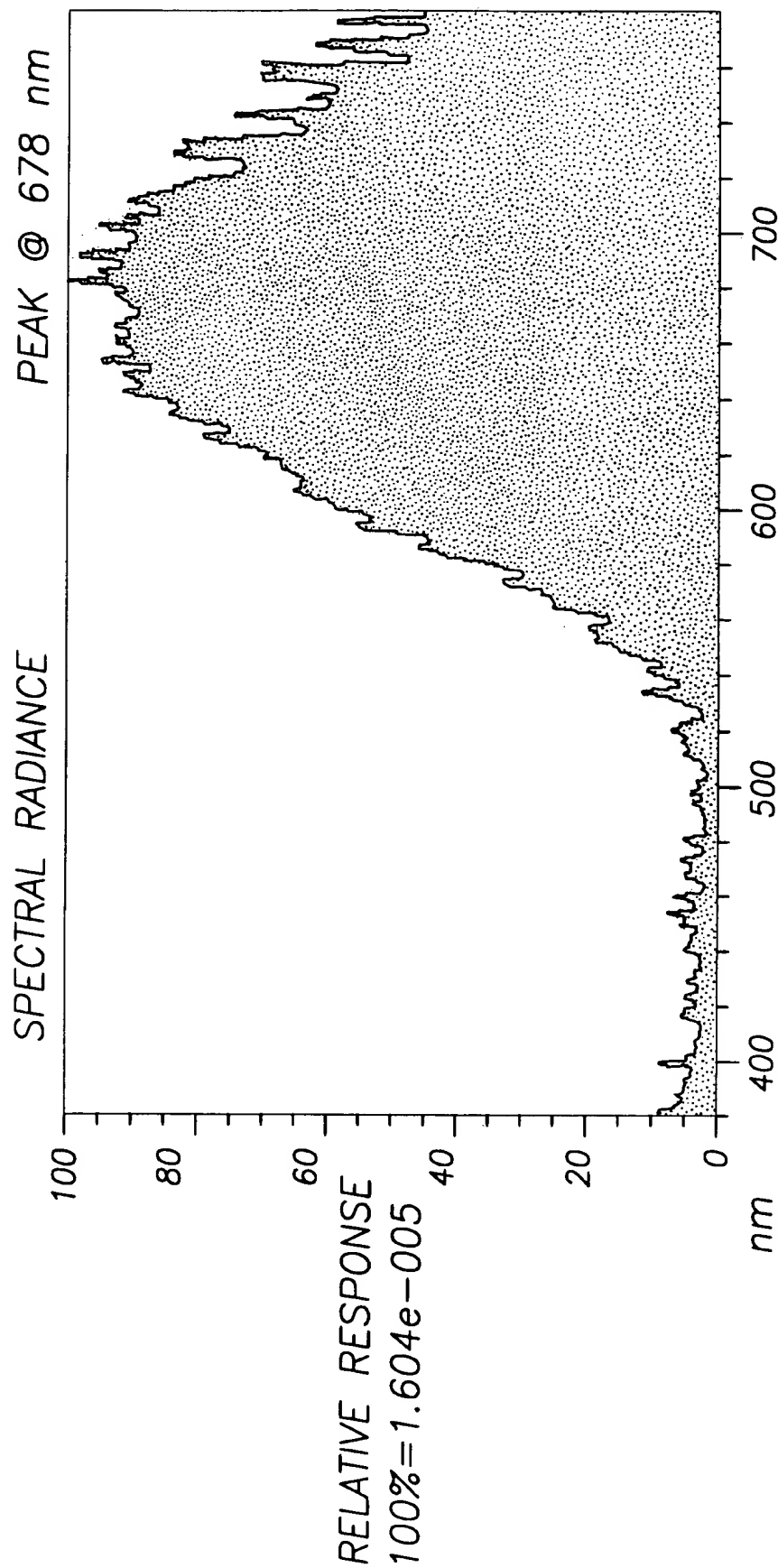
FIG.2L



Emission Spectrum of 2-OH-Spiroacridan (12)

00220*99592960

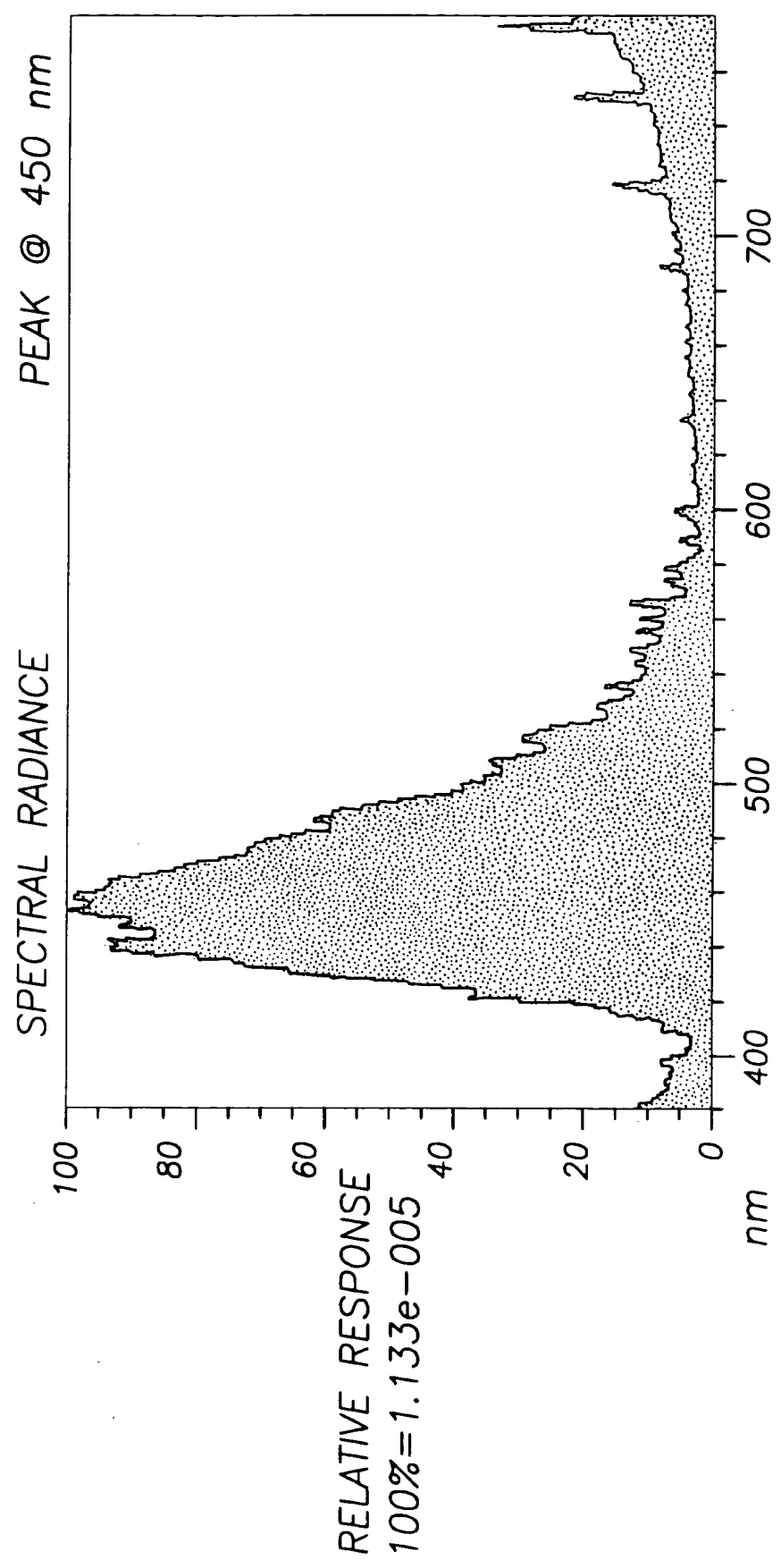
FIG.2M



Emission Spectrum of 3-Enol-Phos-Acridan (15)

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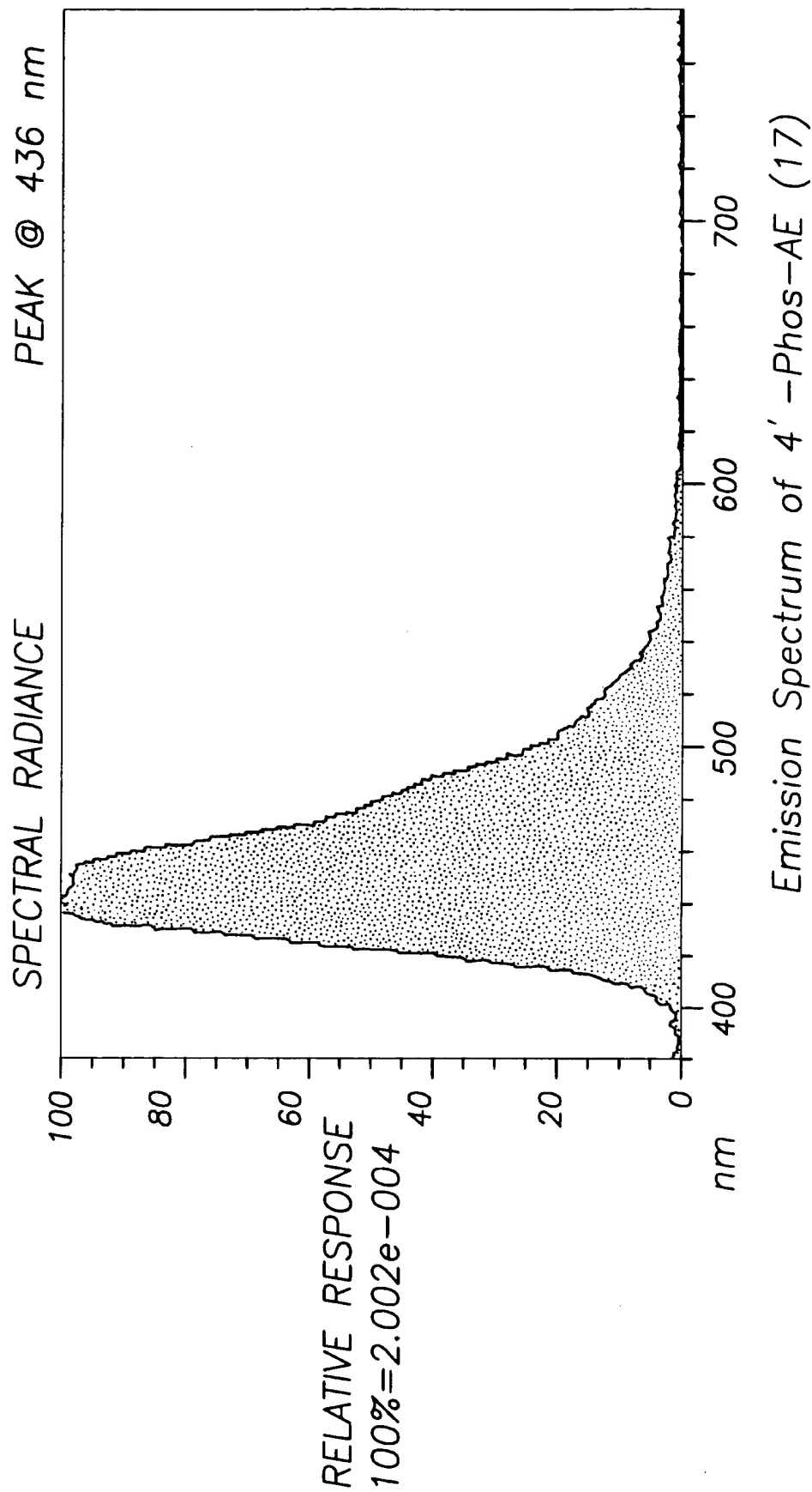
FIG.2N



Emission Spectrum of 3-(4'-Hydroxybenzyl)carbonyl-Acridan (16)

00220"99592960

FIG.20



00220" 99592960

FIG.2P

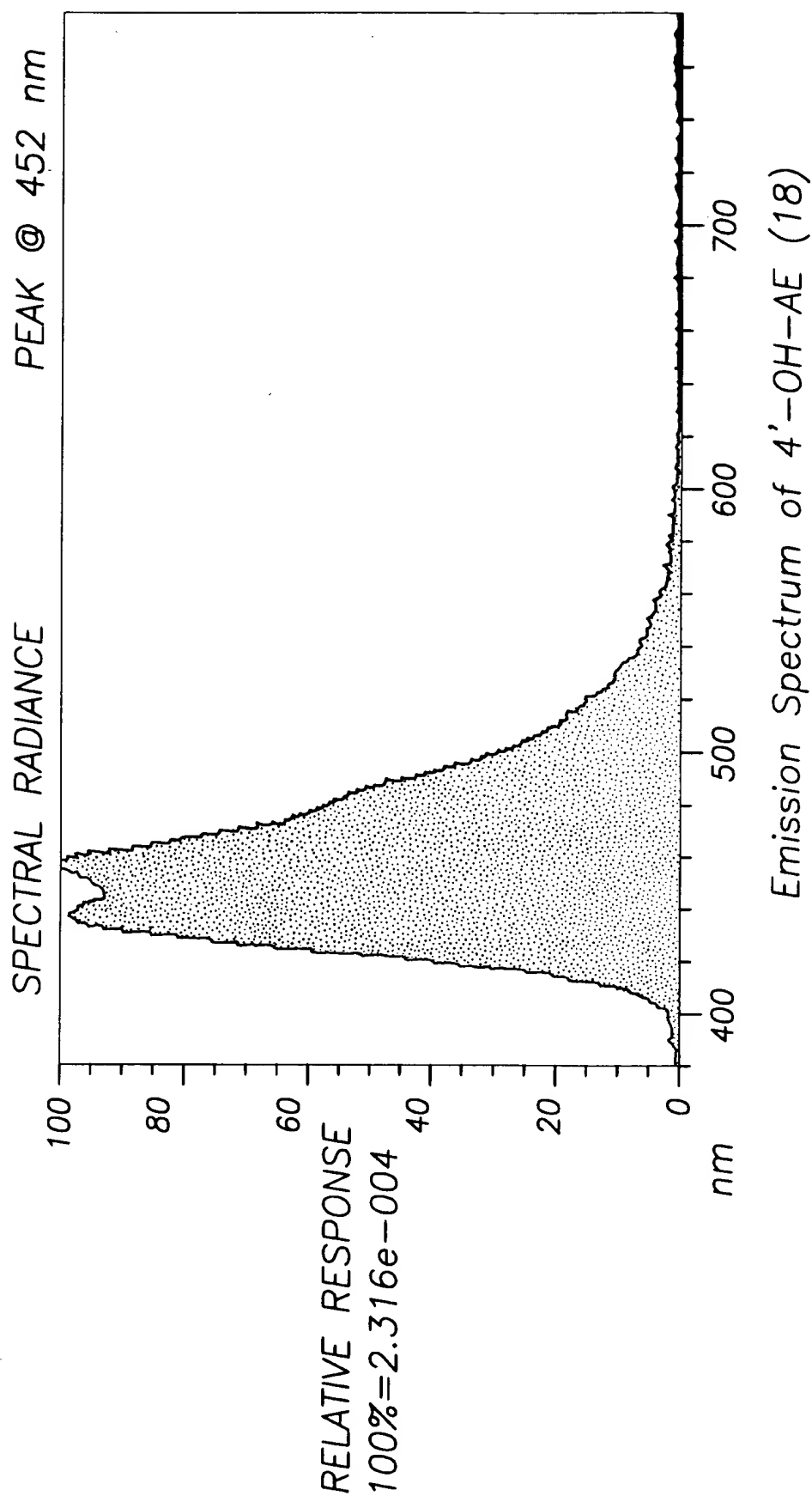


FIG. 3

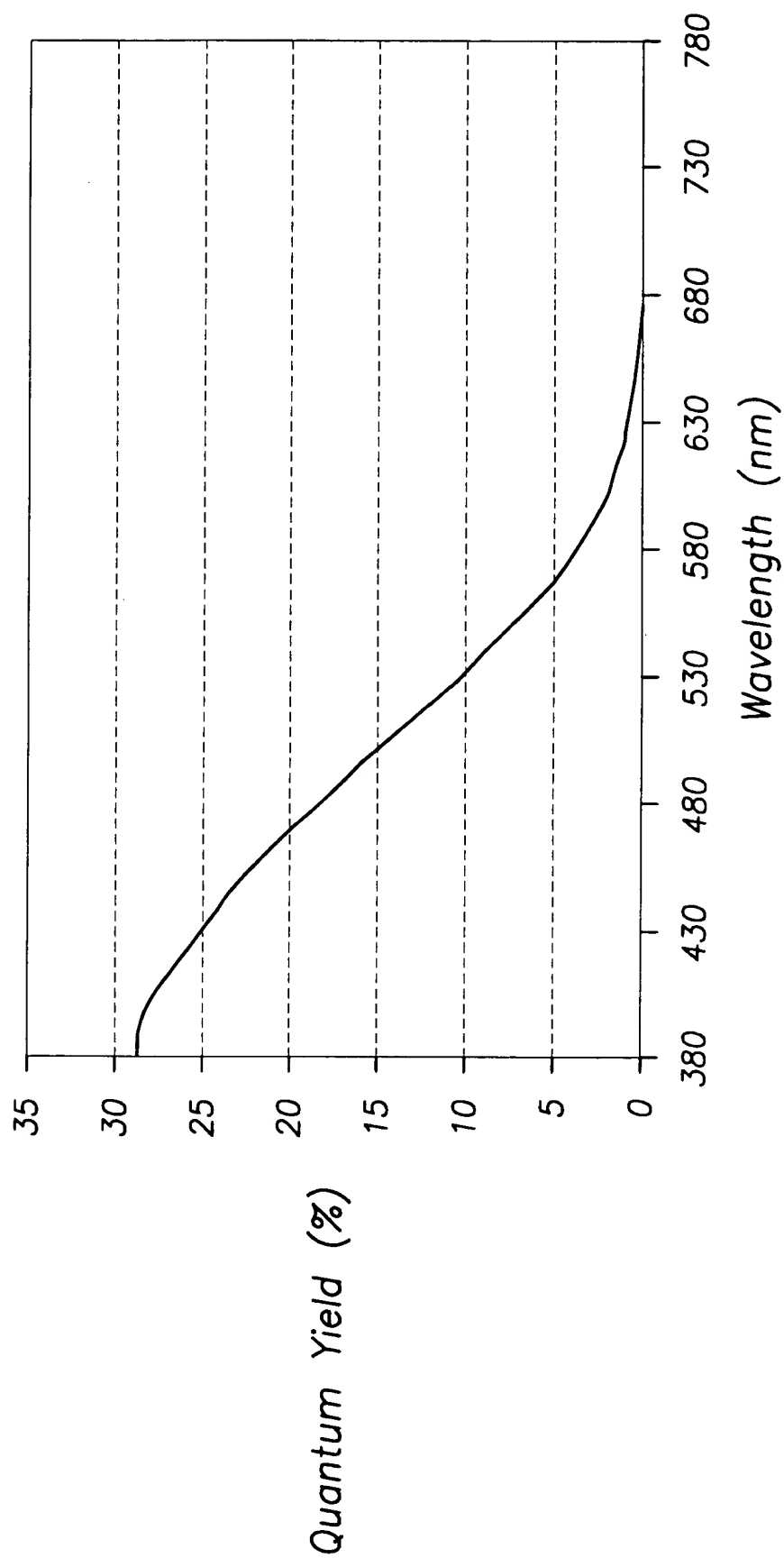
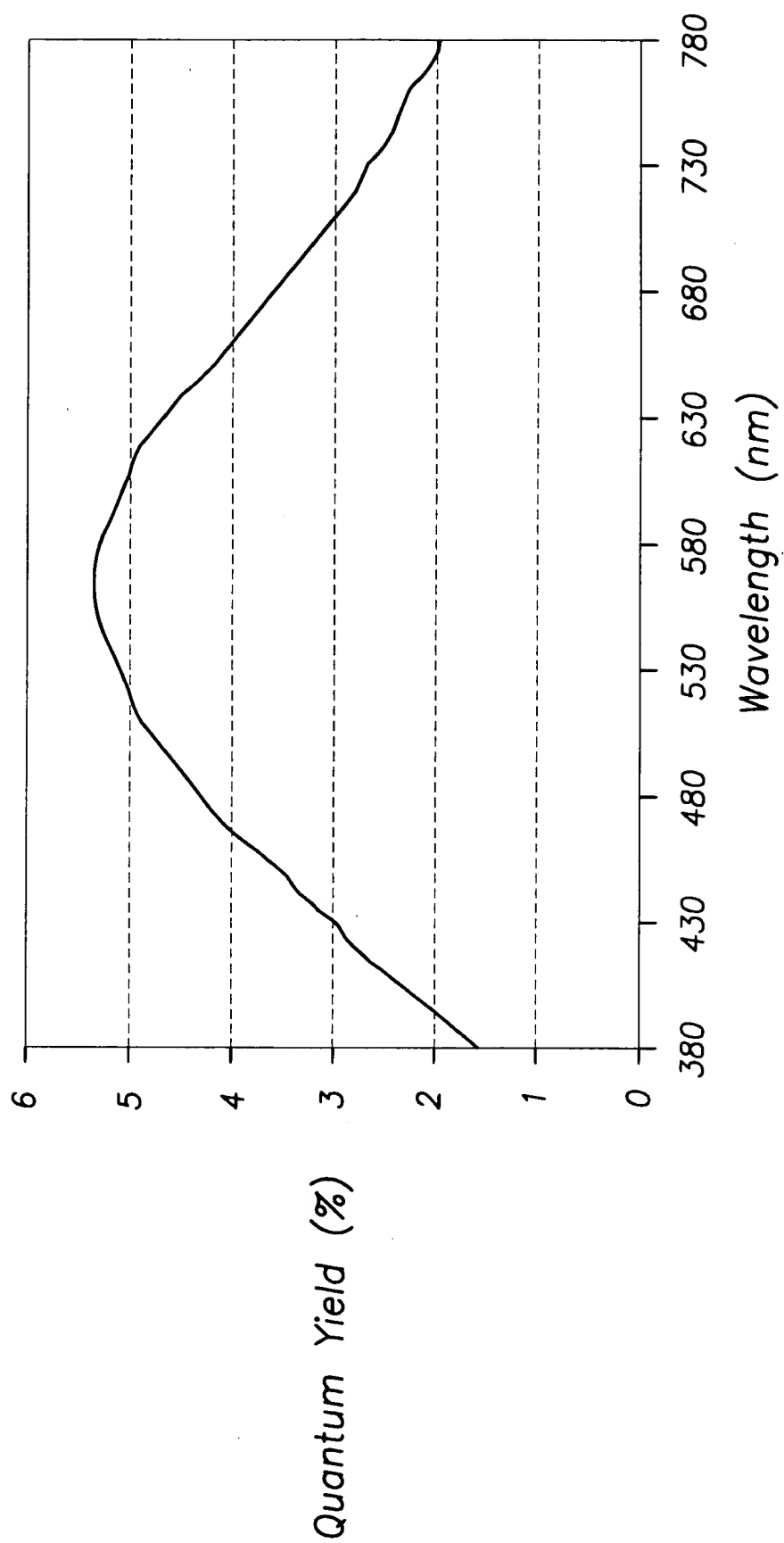


FIG. 4



Sensitivity of thinned CCD

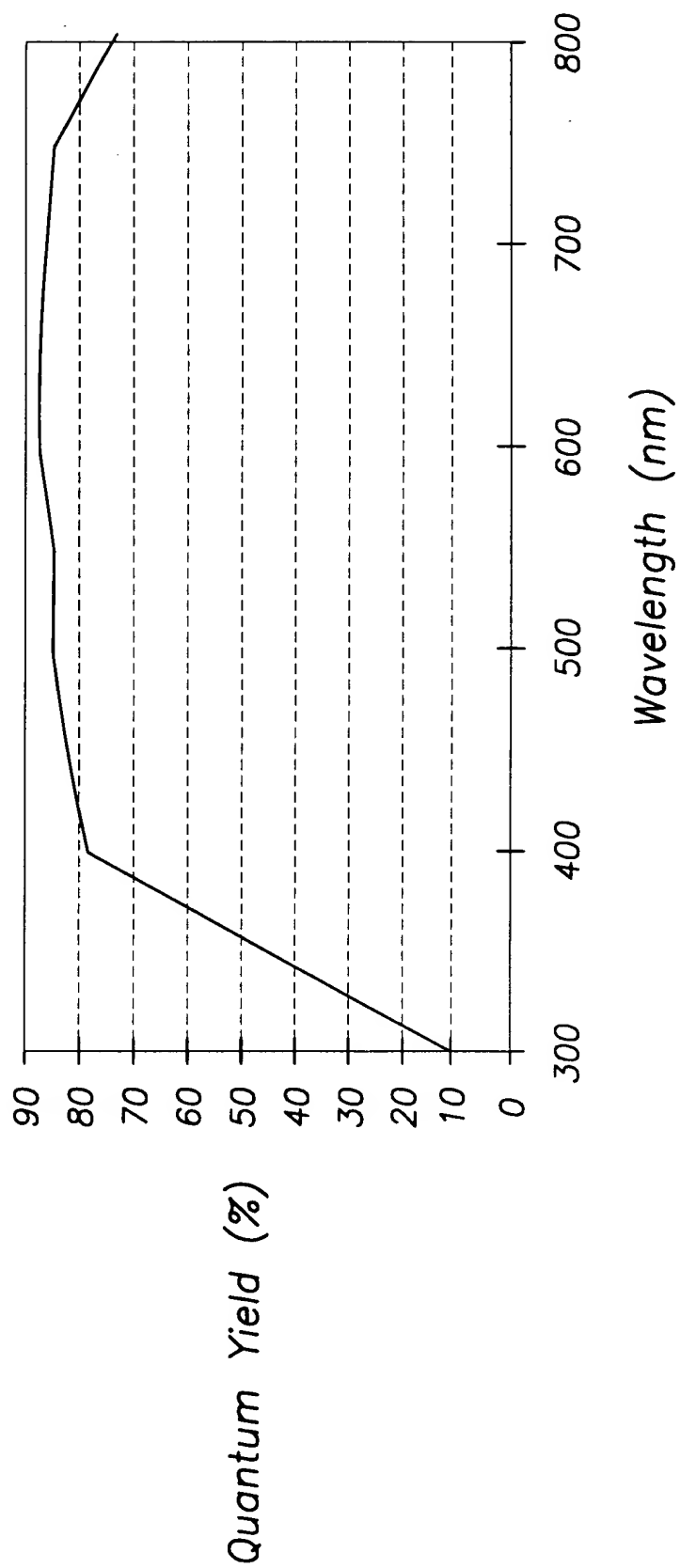
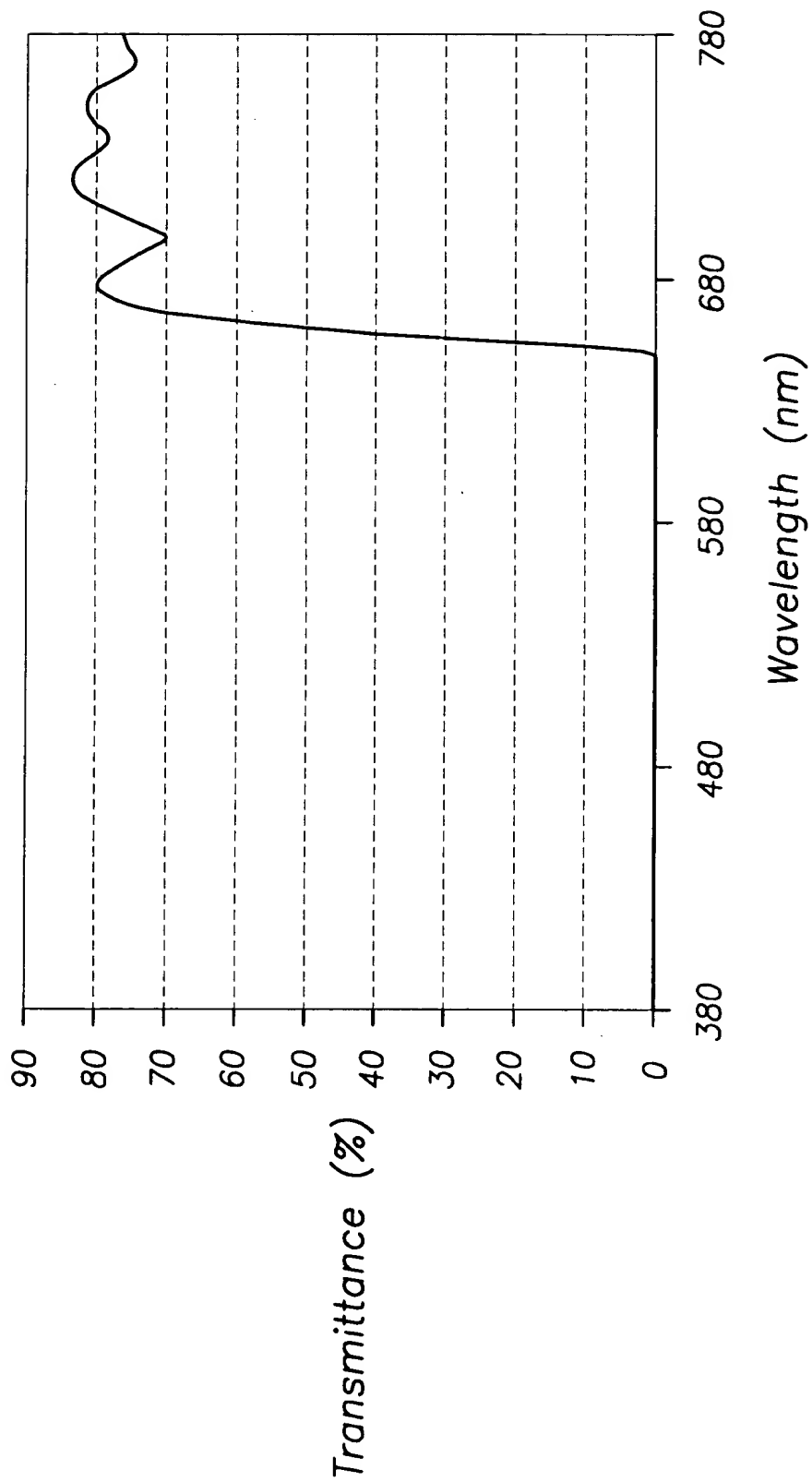


FIG. 6



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FIG. 7

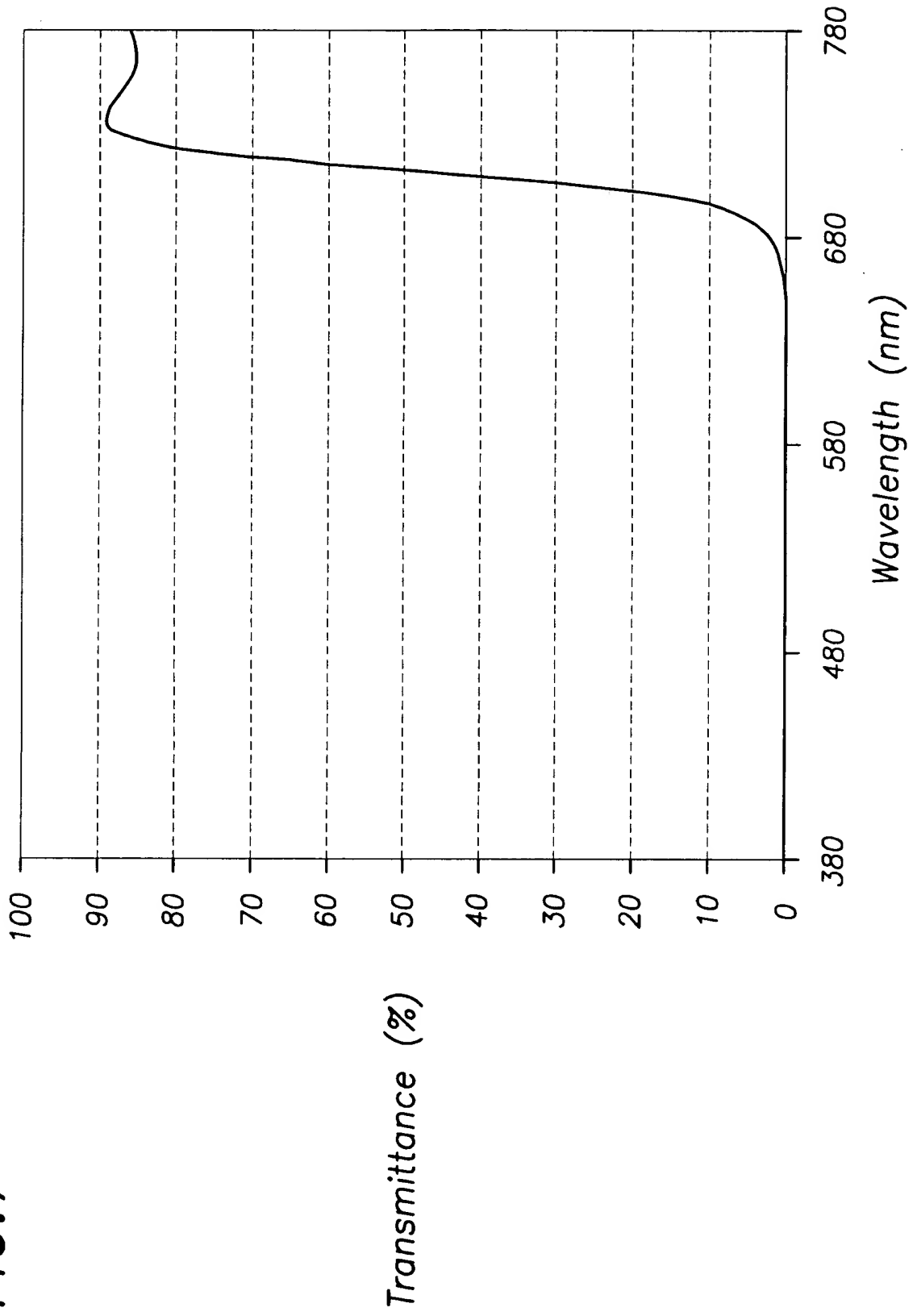


FIG.8

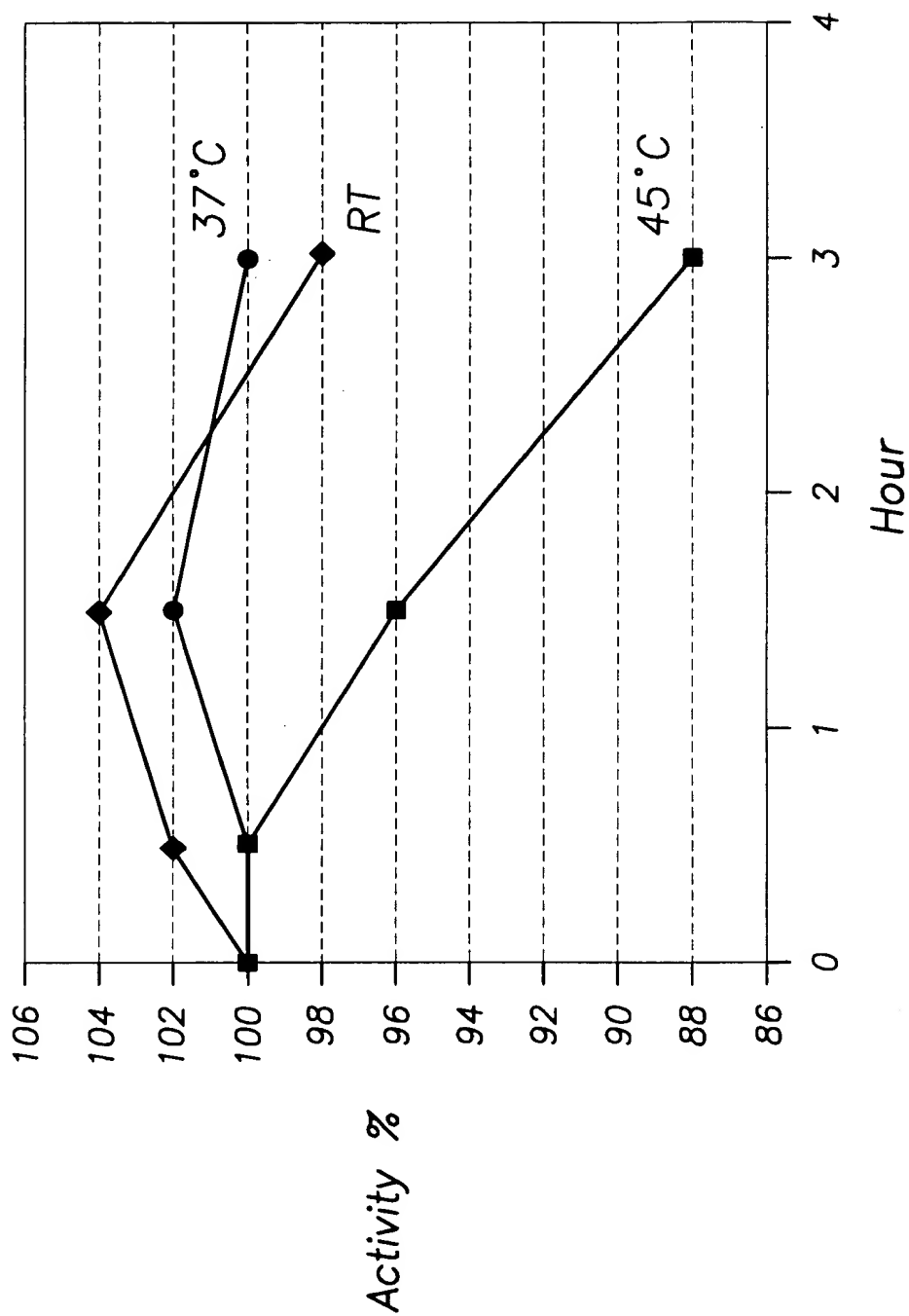


FIG. 9

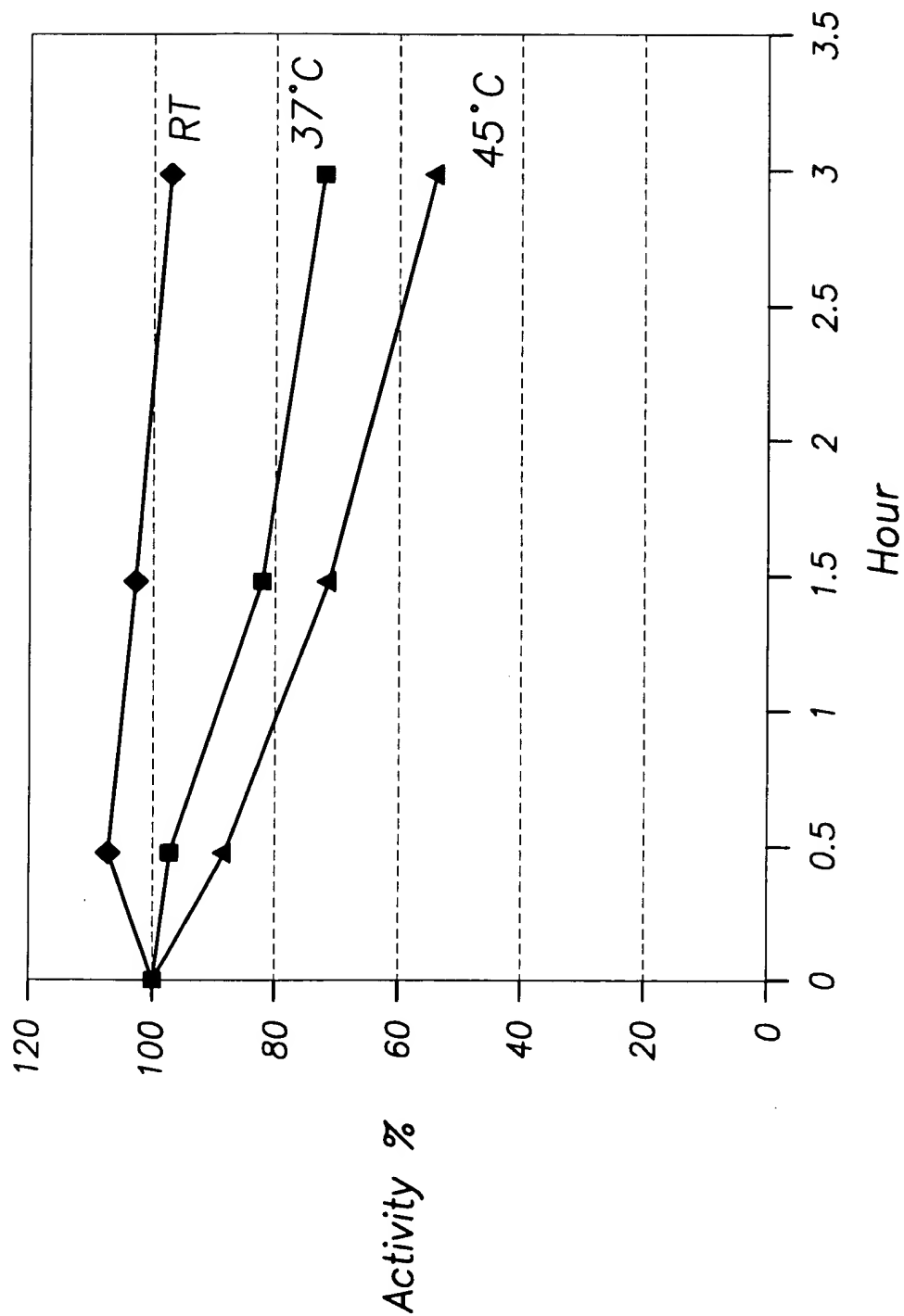


FIG.10

AP Detectability (45 oC, 0.5 hr, R268/2xLL650)

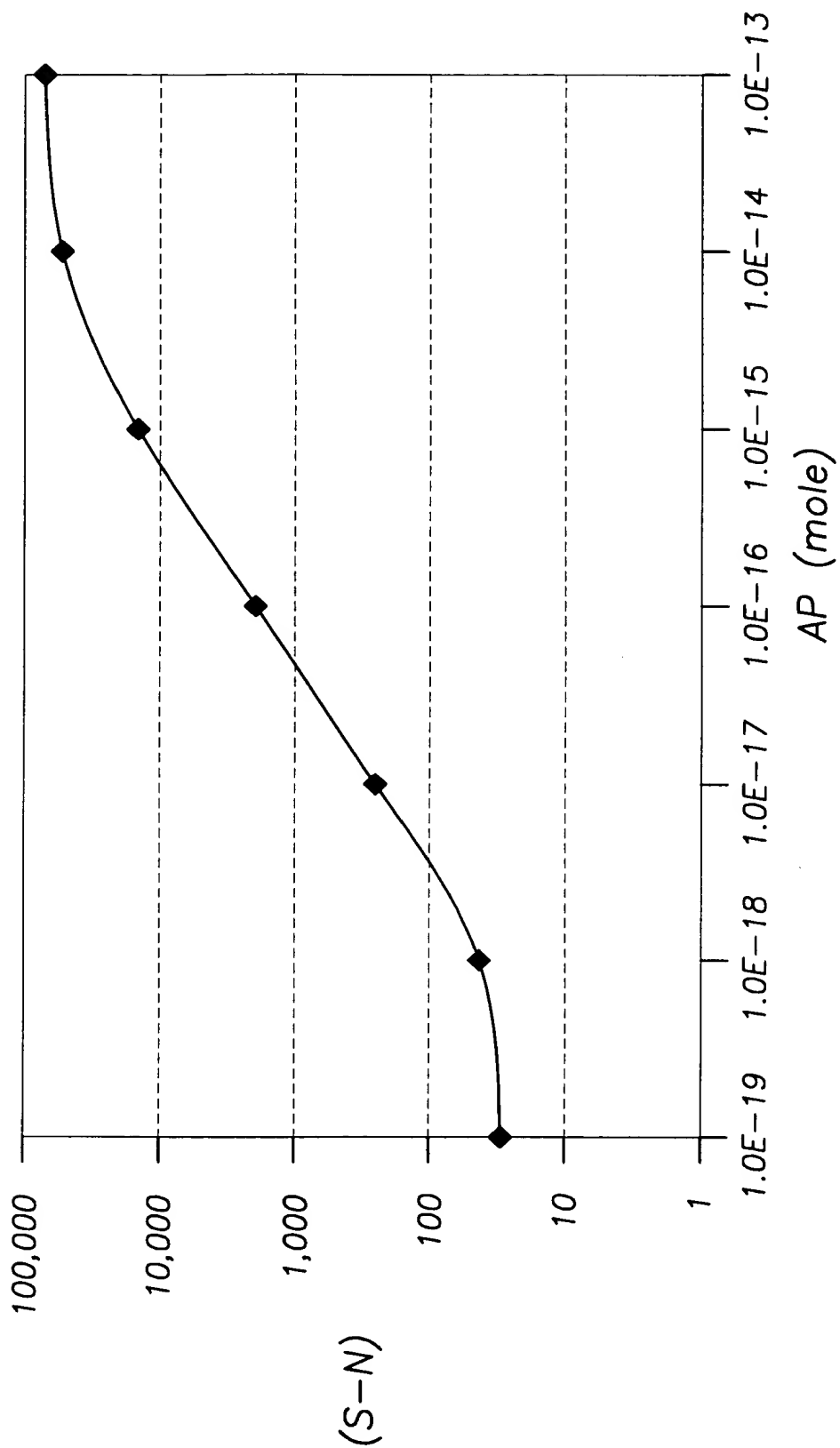


FIG. 11

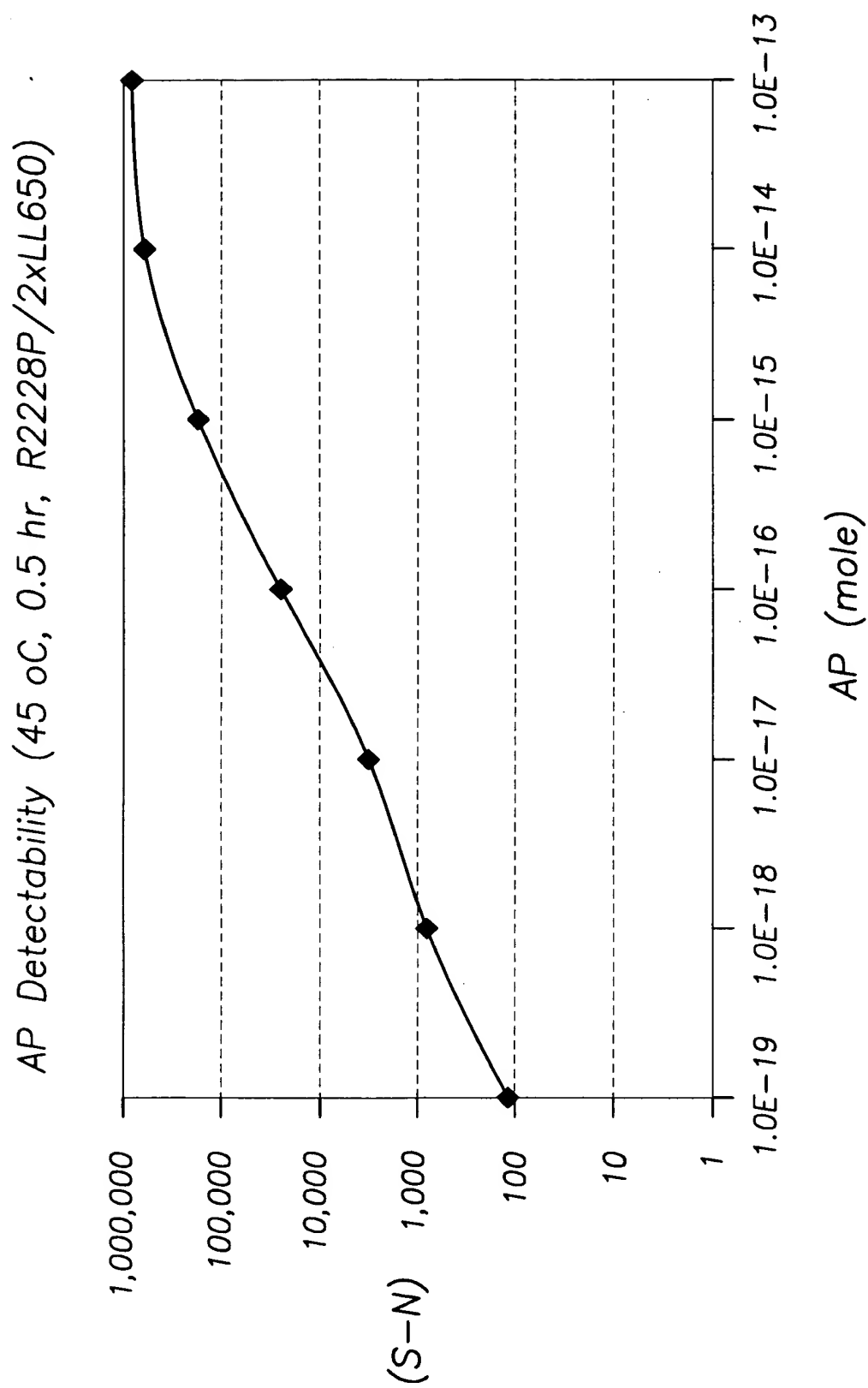


FIG. 12

AP Detectability (45 oC, 1 hr, R2228P, LL700)

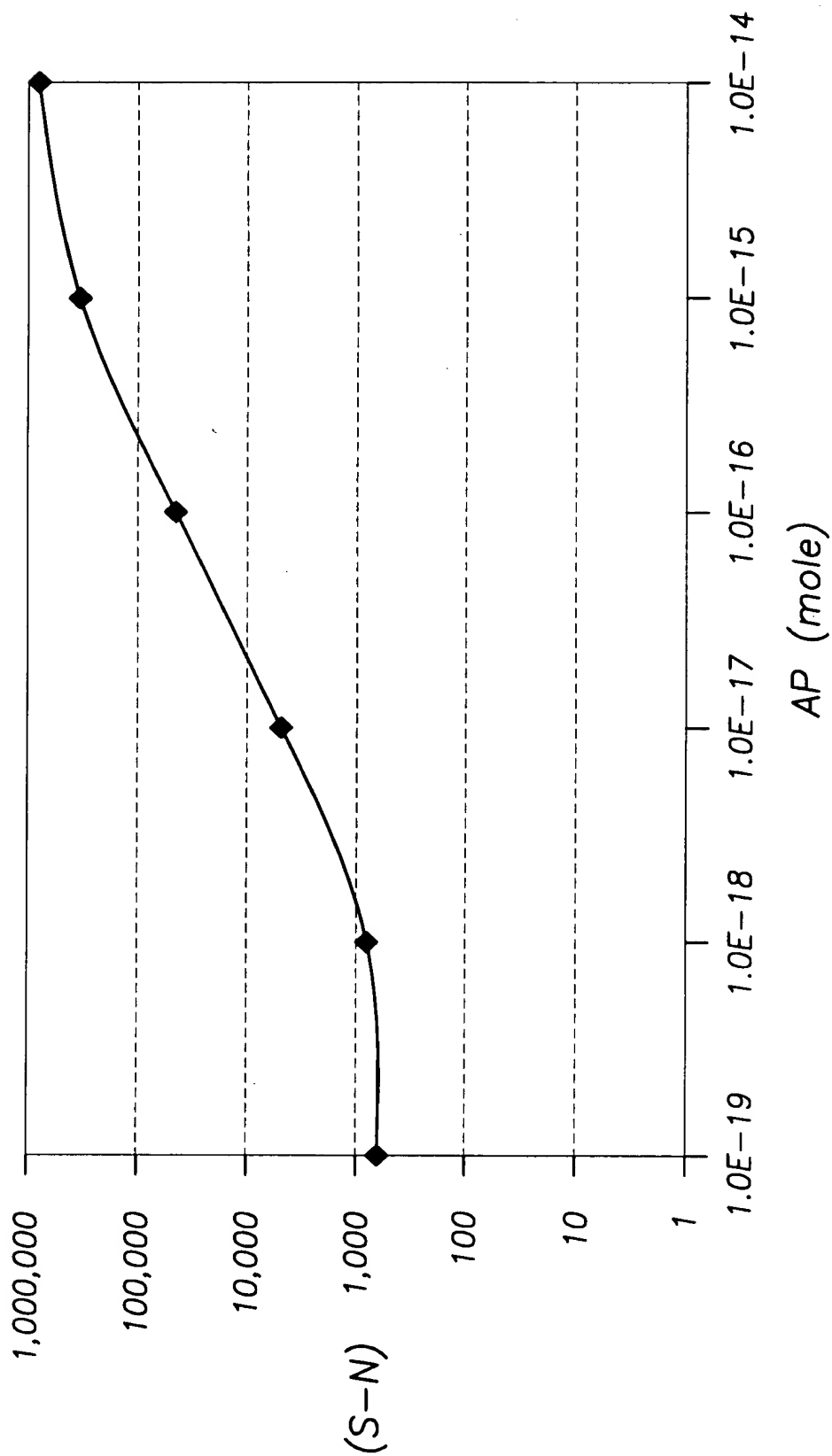


FIG. 13

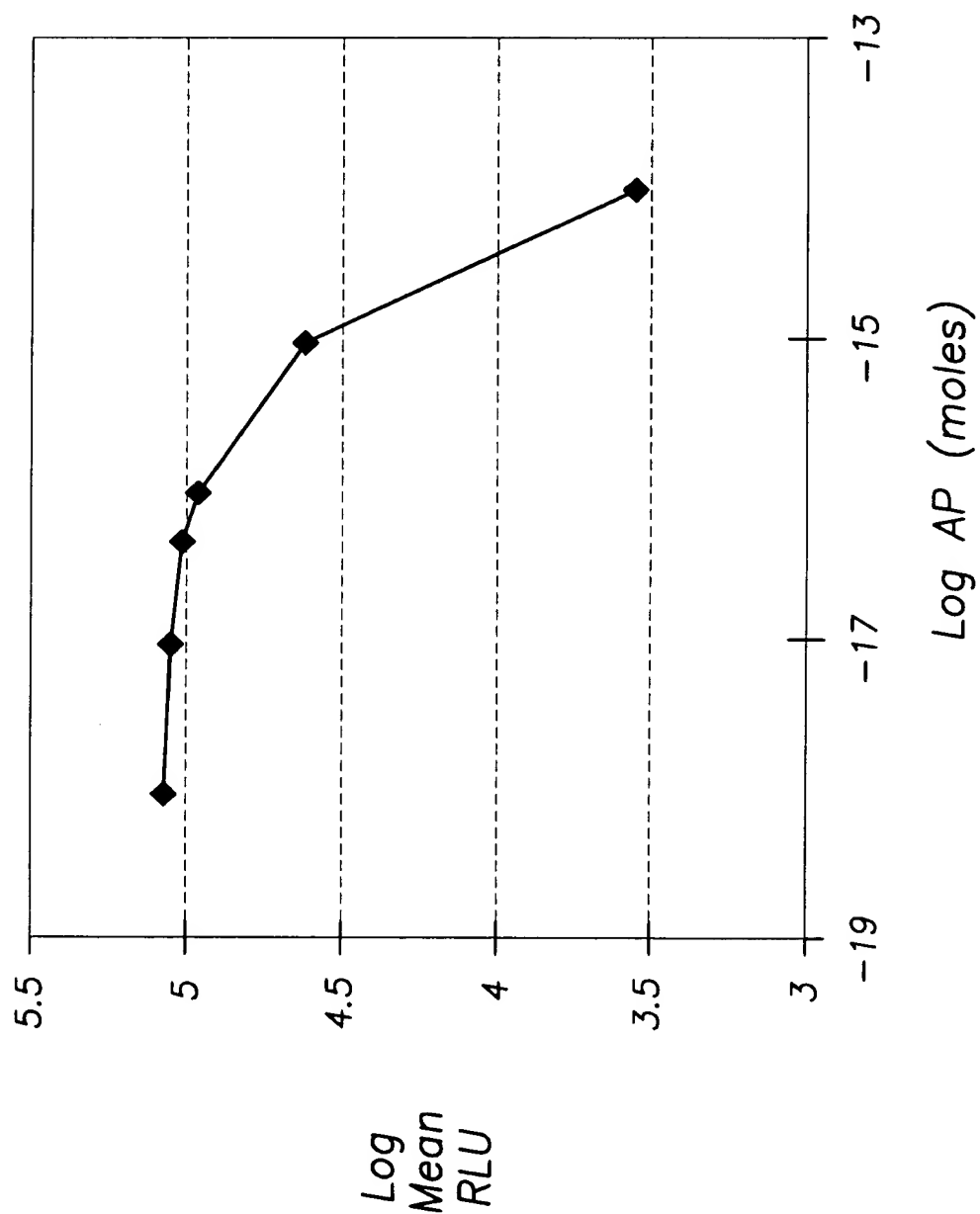


FIG. 14

